

GAU 1055
Box SEG
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Case Docket No. VANM145.001APC
Date JUN 05 2001
Page 1
TECH CENTER 1600/2900

In re application of : Vannuffel, et al.
App. No. : 09/509,234
Filed : September 25, 2000
For : GENETIC SEQUENCES,
DIAGNOSTIC AND/OR
QUANTIFICATION METHODS
AND DEVICES FOR THE
IDENTIFICATION OF
STAPHYLOCOCCI STRAINS
Examiner : C. Myers
Art Unit : 1655

I hereby certify that this correspondence and all
marked attachments are being deposited with
the United States Postal Service as first class
mail in an envelope addressed to: Assistant
Commissioner for Patents, Washington, D.C.
20231, on

May 25, 2001
(Date)
Daniel Hart
Daniel Hart, Reg. No. 40,637

**ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231**

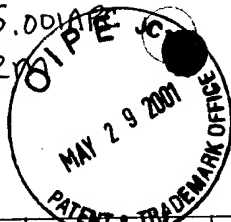
Sir:

Transmitted herewith is an amendment in the above-identified application.

- (X) Substitute Sequence Listing in 44 pages.
- (X) Sequence Submission Statement.
- (X) Substitute Sequence Listing in computer readable form.
- (X) Copy of Notice to Comply.
- (X) Return prepaid postcard.
- (X) Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Daniel Hart
Daniel Hart
Registration No. 40,637
Attorney of Record

VANM145.001A
DOH/KR



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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Washington, D.C. 20231

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KW

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/509,234 09/25/00 VANNUFFEL

F VANM145.001A

020995 HM12/0427
KNOBBE MARTENS OLSON & BEAR LLP
620 NEWPORT CENTER DRIVE
SIXTEENTH FLOOR
NEWPORT BEACH CA 92660

EXAMINER

MYERS, C

ART UNIT

PAPER NUMBER

1655

DATE MAILED:

04/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

DOCKETED ON:	5-4-01
BY: SN	VERIFIED BY:
ACTION:	Notice to Comply
DUE DATE:	May 27, 2001
FINAL DEADLINE:	Oct. 27, 2001
ATTY:	DOH / KRM
ATTORNEY VERIFICATION OF DUE DATE AND FINAL DEADLINE:	



Application No.:

091509,234

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE
DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s)

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

Art Unit: 1655

The communication filed on March 20, 2001 is not fully responsive to the Office communication mailed November 20, 2000 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Since the above-mentioned reply appears to be *bona fide* attempt to comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825), applicant is given a TIME PERIOD of **ONE (1) MONTH** from the mailing date of this communication within which to correct the deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid abandonment of the application under 37 CFR 1.821(g). EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carla Myers whose telephone number is (703) 308-2199. The examiner can normally be reached on Monday-Thursday from 6:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached on (703)-308-1152. The fax number for the Technology Center is (703)-305-3014 or (703)-305-4242.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

Carla Myers

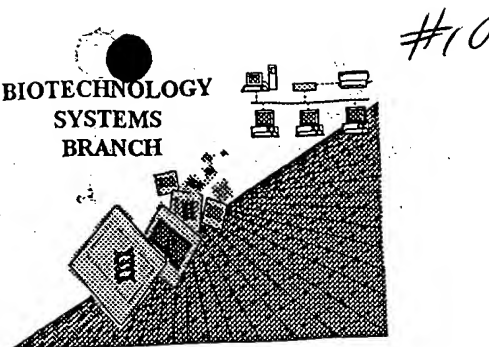
April 23, 2001


CARLA J. MYERS
PRIMARY EXAMINER



RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/509,234
Source: 1655
Date Processed by STIC: 4/12/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

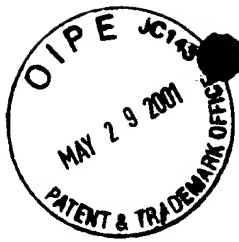
Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/12/2001
TIME: 15:54:04

Input Set : A:\PTO.txt
Output Set: N:\CRF3\04122001\I509234.raw

Does Not Comply
Corrected Diskette Needed

OK 3 <110> APPLICANT: Vannuffel, Pascal
4 Gala, Jean-Luc
6 <120> TITLE OF INVENTION: GENETIC SEQUENCES, DIAGNOSTIC AND/OR QUANTIFICATION METHODS AND DEVICES
7 FOR THE IDENTIFICATION OF STAPHYLOCOCCI STRAINS
9 <130> FILE REFERENCE: VANM145.001A
10 <140> CURRENT APPLICATION NUMBER: 09/509,234
11 <141> CURRENT FILING DATE: 2000-09-25
13 <160> NUMBER OF SEQ ID NOS: 64
14 <170> SOFTWARE: PatentIn version 3.0

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APR 20 2001

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ERRORED SEQUENCES

2419 <210> SEQ ID NO: 64
2420 <211> LENGTH: 18
2421 <212> TYPE: DNA
2422 <213> ORGANISM: femX9
2424 <400> SEQUENCE: 64
2425 agctcgaaaa tagaacta

E--> 2427 20
E--> 2430 1

delete at end of file

18

see following pages for more errors

2

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

TECH CENTER 1600/2900

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

3 <110> APPLICANT: Vannuffel, Pascal
4 Gala, Jean-Luc
6 <120> TITLE OF INVENTION: GENETIC SEQUENCES, DIAGNOSTIC AND/OR QUANTIFICATION METHODS
AND DEVICES

7 FOR THE IDENTIFICATION OF STAPHYLOCOCCI STRAINS
9 <130> FILE REFERENCE: VANM145.001A
10 <140> CURRENT APPLICATION NUMBER: 09/509,234
11 <141> CURRENT FILING DATE: 2000-09-25
13 <160> NUMBER OF SEQ ID NOS: 64
14 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1328
19 <212> TYPE: DNA
20 <213> ORGANISM: Staphylococcus femA Consensus Sequence
22 <220> FEATURE:
23 <221> NAME/KEY: misc_feature
24 <222> LOCATION: 1-1328
25 <223> OTHER INFORMATION: n= any nucleotide
27 <400> SEQUENCE: 1

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W--> 30 ngannnnatg ncnnanagnc atttnacnca nannnnngnn nantangann tnaannttgc 120
W--> 32 nnannnnnnn gannncann tagtnggnat naanaanaan nataangang tnattgcngc 180
W--> 34 ntgnntntn acngcngtnc cngtnatgaa antnttnaan tanttttatt cnaannnggg 240
W--> 36 nccngtnatn gattntnana annnaganc ngtncantnn ttctttaang antttnnnnaa 300
W--> 38 ntatntnaaa nannannntn nntatannt nnnntngan ccntanntnn cntatcaata 360
W--> 40 nnnnaatcat gangnggann tnnngnnaa tgcngggnan gattggntnt tngatnannt 420
W--> 42 nnnnnnnntn ggntntnanc annnggntt nnnnannngn ttgancenn tnnnncaaat 480
W--> 44 nngntnnan tngntntan atttannnnn naaaannncn nanganntnn tnaannnnat 540
W--> 46 ggatngntn ngnaannnga anacnaaaaa agtnnanaan aatggngtna aagttnnnntt 600
W--> 48 nntnnnnnaa ganganntnc cnatnttng ntcattnatg gangatacnn cnganncnaa 660
W--> 50 ngnttnnnn gatngngang annnttnta ntanaanngn tnnnnnnatt nnaaagannn 720
W--> 52 ngtntngtn ccntngcnt atatnnant tgatgantan ntnnnnga tnnannnga 780
W--> 54 nngnnannnn ntnantaaag annnaanaa agcnnntaan ganatngana aangncnga 840
W--> 56 naanaaaaa gcnnnnaana annnnnnnaa nntnnaanan caantnnng cnaannanca 900
W--> 58 aaanntnnan gangnnannn nnttnnaann nnancatggn aangaattac cnatntcngc 960
W--> 60 ngntncttn ntnatnaatc cntntgaagt ngntntantan gcnggtgna cntcnaatnn 1020
W--> 62 ntnnngncan ttngcnggna gntatgcnt ncaatggnn atgattaant atgcnttnna 1080
W--> 64 ncatnnnatn nanngntana attntatgg nnttagnggt nantttanng angangcnga 1140
W--> 66 agatgnggn gtntnaant tnaaaaang nttnnatgcn ganntntng antangttgg 1200
W--> 68 ngantnttn aaaccnatna anaancnt ntannnnnn tatannncan tnaaaaant 1260
W--> 70 nnannnnann nnnntann nannnnnnna nnnnannnn nnnnnnatga aatttacaga 1320
W--> 72 gttannnn

75 <210> SEQ ID NO: 2
76 <211> LENGTH: 35
77 <212> TYPE: DNA
78 <213> ORGANISM: primer
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature

see p.3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

name other locations, too OR show as (1)..(35)

82 <222> LOCATION: 2
83 <223> OTHER INFORMATION: n= any nucleotide
85 <400> SEQUENCE: 2
86 anaatgaant ttacnaattt *naaagcnaa gant* 35
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 20
91 <212> TYPE: DNA
92 <213> ORGANISM: femS1
94 <400> SEQUENCE: 3 20
95 taatgaagtt tacaaaattt
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 20
100 <212> TYPE: DNA
101 <213> ORGANISM: femS2
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: 14
106 <223> OTHER INFORMATION: n= any nucleotide
108 <400> SEQUENCE: 4 20
109 taatgaagtt tacnaaattt
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 25
114 <212> TYPE: DNA
115 <213> ORGANISM: primer
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: *← give locations*
120 <223> OTHER INFORMATION: n= ? (*define "n"*)
122 <400> SEQUENCE: 5 25
W--> 123 atgnaaaga gacatttnac ncana
126 <210> SEQ ID NO: 6
127 <211> LENGTH: 20
128 <212> TYPE: DNA
129 <213> ORGANISM: femU1
131 <400> SEQUENCE: 6 20
132 tgccatatag tcattttacgc
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 37
137 <212> TYPE: DNA
138 <213> ORGANISM: primer
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: *← give locations*
143 <223> OTHER INFORMATION: n= any nucleotide
145 <400> SEQUENCE: 7 37
W--> 146 tagtgggat aaanaaanaa nataaangag ttattgc
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 35
151 <212> TYPE: DNA

see pp 4-6, too

4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

✓ 152 <213> ORGANISM: primer
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: *← give locations*
157 <223> OTHER INFORMATION: n= any nucleotide
159 <400> SEQUENCE: 8 35

W--> 160 gtncnngtna tgaaantntt naantanttt tattc
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 18
165 <212> TYPE: DNA
166 <213> ORGANISM: primer
168 <220> FEATURE:
✓ 169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: *← give locations*
171 <223> OTHER INFORMATION: n= any nucleotide
173 <400> SEQUENCE: 9 18

W--> 174 aatgcngggn angattgg
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 43
179 <212> TYPE: DNA
180 <213> ORGANISM: primer
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
✓ 184 <222> LOCATION: *← give locations*
185 <223> OTHER INFORMATION: n= any nucleotide
187 <400> SEQUENCE: 10 43

W--> 188 gnaanngnaa nacnaaaaaa gttnnanaana atggngtnaa agt
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 18
193 <212> TYPE: DNA
194 <213> ORGANISM: fsq1S
196 <400> SEQUENCE: 11 18

197 aaaaagttca aaaaatgg
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 18
202 <212> TYPE: DNA
203 <213> ORGANISM: fsq2S
205 <400> SEQUENCE: 12 18

206 aaaaagtaca aaaaatgg
209 <210> SEQ ID NO: 13
210 <211> LENGTH: 40
211 <212> TYPE: DNA
212 <213> ORGANISM: primer
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
✓ 216 <222> LOCATION: *← give locations*
217 <223> OTHER INFORMATION: n= any nucleotide
219 <400> SEQUENCE: 13 40

W--> 220 aagangannt nccnatnttn ngntcattna tggangatac

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

223 <210> SEQ ID NO: 14
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: primer
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
✓ 230 <222> LOCATION: *← give locations*
231 <223> OTHER INFORMATION: n= any nucleotide
233 <400> SEQUENCE: 14
W--> 234 tatatnnant ttgatganta 20
237 <210> SEQ ID NO: 15
238 <211> LENGTH: 32
239 <212> TYPE: DNA
240 <213> ORGANISM: primer
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
✓ 244 <222> LOCATION: *← give locations*
245 <223> OTHER INFORMATION: n= any nucleotide
247 <400> SEQUENCE: 15
W--> 248 aanganatng anaaangncc nganaanaaa aa 32
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 18
253 <212> TYPE: DNA
254 <213> ORGANISM: fsq3S
256 <400> SEQUENCE: 16
257 aaagatatg aaaaacga 18
260 <210> SEQ ID NO: 17
261 <211> LENGTH: 20
262 <212> TYPE: DNA
263 <213> ORGANISM: fsq4S
265 <400> SEQUENCE: 17
266 aaagatatg aaaagagacc 20
269 <210> SEQ ID NO: 18
270 <211> LENGTH: 18
271 <212> TYPE: DNA
272 <213> ORGANISM: fsq5S
274 <400> SEQUENCE: 18
275 aaagatatcg agaaagac 18
278 <210> SEQ ID NO: 19
279 <211> LENGTH: 18
280 <212> TYPE: DNA
281 <213> ORGANISM: fsq6S
283 <400> SEQUENCE: 19
284 aaagacatcg acaagcgt 18
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 22
289 <212> TYPE: DNA
290 <213> ORGANISM: primer
292 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

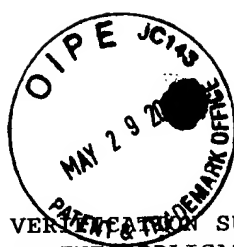
DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

293 <221> NAME/KEY: misc_feature
✓ 294 <222> LOCATION: *← give locations*
295 <223> OTHER INFORMATION: n= any nucleotide
297 <400> SEQUENCE: 20
W--> 298 ancatggnaa ngaattaccn at 22
301 <210> SEQ ID NO: 21
302 <211> LENGTH: 19
303 <212> TYPE: DNA
304 <213> ORGANISM: fem1
306 <400> SEQUENCE: 21
307 gaacatggta atgaattac 19
310 <210> SEQ ID NO: 22
311 <211> LENGTH: 32
312 <212> TYPE: DNA
313 <213> ORGANISM: primer
315 <220> FEATURE:
✓ 316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: *← give locations*
318 <223> OTHER INFORMATION: n= any nucleotide
320 <400> SEQUENCE: 22
W--> 321 aatccntntg aagtingnta ntangcnggt gg 32
324 <210> SEQ ID NO: 23
325 <211> LENGTH: 35
326 <212> TYPE: DNA
327 <213> ORGANISM: primer
329 <220> FEATURE:
330 <221> NAME/KEY: misc_feature
✓ 331 <222> LOCATION: *← give locations*
332 <223> OTHER INFORMATION: n= any nucleotide
334 <400> SEQUENCE: 23
W--> 335 agntatgcnn tncaatggnn natgattaan tatgc 35
338 <210> SEQ ID NO: 24
339 <211> LENGTH: 44
340 <212> TYPE: DNA
341 <213> ORGANISM: primer
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
✓ 345 <222> LOCATION: *← give locations*
346 <223> OTHER INFORMATION: n= any nucleotide
348 <400> SEQUENCE: 24
W--> 349 tttanngang angcngaaga tgnnggngtn ntnaanttna aaaa 44
352 <210> SEQ ID NO: 25
353 <211> LENGTH: 20
354 <212> TYPE: DNA
355 <213> ORGANISM: fem3bio
357 <400> SEQUENCE: 25
358 tttactgaag atgctgaaga 20
361 <210> SEQ ID NO: 26
362 <211> LENGTH: 20

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001

TIME: 11:30:18

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04172001\I509234.raw

L:10 M:283 W: Missing Blank Line separator, <140> field identifier
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26